

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
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Title of  
Invention

Signal Quality Monitoring and Control for a Medical Device  
System

Application Number: 10/687348



Confirmation Number: 7858

First Named Applicant: Mark Frei

Attorney Docket Number: 011738.00152

Art Unit: 2126

Examiner: Unassigned Unassigned

Search string: ( 5331966 or 5987352 or 5995868 or 6115628  
or 6236882 or 6505067 ).pn.

Certification: This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

## US Patent Documents

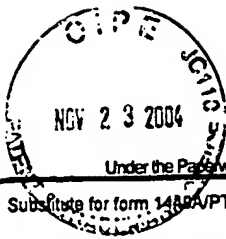
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
DP	1	5331966	1994-07-26	Bennett			
	2	5987352	1999-11-16	Klein			
	3	5995868	1999-11-30	Dorfmeister			
	4	6115628	2000-09-05	Stadler			
	5	6236882	2001-05-22	Lee			
	6	6505067	2003-01-07	Lee			

Signature

Examiner Name	Date

Darin Robett 2/6/06



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/687,348
Filing Date	October 15, 2003
First Named Inventor	Mark G. Frei
Art Unit	2126
Examiner Name	TBD
Attorney Docket Number	011738.00152

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cita No. <sup>1</sup>	Document Number	Issue/Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
DR		US- 3522811	08/04/1970	Schwartz et al.	
DR		US- 3850181	11/26/1974	Saul Liss	
DR		US- 3883625	02/04/1975	Viglione et al.	
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DR		US- 6473639	10/24/2002	Fischell et al.	
DR		US- 6480743	11/12/2002	Kirkpatrick et al.	
DR		US- 6560486	05/06/2003	Osorio et al.	
DR		US- 6591138	07/08/2003	Fischell et al.	
DR		US- 6597954	07/22/03	Pless et al.	
DR		US- 6647286	11/11/2003	Fischell et al.	
DR		US- 2002/0013614	01/31/2002	David L. Thompson	

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Sheet

2

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4

**Complete if Known**

Application Number	10/687,348
Filing Date	October 15, 2003
First Named Inventor	Mark G. Frei
Art Unit	2126
Examiner Name	TBD
Attorney Docket Number	011738.00152

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DR		US- 5487754	01/30/1996	Snell et al.	
DR		US- 5626145	05/06/1997	Clapp et al.	
DR		US- 5683422	11/04/1997	Mark T. Rise	
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DR		US- 6018682	01/25/2000	Mark T. Rise	
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DR		US- 6466822	10/15/2002	Benjamin D. Pless	
DR		US- 6473639	10/24/2002	Fischell et al.	

Examiner  
Signature

Darin Robert

Date  
Considered

2/6/06

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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/687,348
		Filing Date	October 15, 2003
		First Named Inventor	Mark G. Frei
		Art Unit	2126
		Examiner Name	TBD
(Use as many sheets as necessary)		Attorney Docket Number	011738.00152
Sheet	3	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DR		Alan V. Oppenheim & Ronald W. Schaffer, Digital Signal Processing, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1975, pg. 18-24.	
		Gotman J., & Gloor, P., "Automatic Recognition and Quantification of Linterictal Epileptic Activity in the Human Scalp EEG", Electroencephalography and Clinical Neurophysiology, 1976, 41:513-529.	
		B. Litt and J. Echazu, "Prediction of Epileptic Seizures", 1 The Lancet Neurology 22 May 2002	
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		Lapkin et al., "The Electroencephalogram in Childhood Basilar Artery Migraine", 27Neurology 580-583, June 1977)	
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		R.P. Lesser et al., "Brief Bursts of Pulse Stimulation Terminate Afterdischarges Caused by Cortical Stimulation", Neurology 53, December 1999	
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		Grassberger, Peter et al., "Characterization of Strange Attractors" Vol. 50, No.5., The American Physical Society, January 31, 1983.	

Examiner Signature	<i>Darin Roberts</i>	Date Considered	2/6/06
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DR		Iasemidis, L. D. and Sackellares, J. C. "Chaos Theory and Epilepsy". The Neuroscientist, 2:118-126, 1996. <retrieved from <a href="http://citeseer.ist.psu.edu/iasemidis96chaos.html">http://citeseer.ist.psu.edu/iasemidis96chaos.html</a> >	
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Examiner Signature	<i>Dustin Roberts</i>	Date Considered	<i>2/6/06</i>
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Attorney Docket No. 011738.00152)

In the Application of:

Mark Frei, et al.

Serial No. 10/687,348

Filed: October 15, 2003

For: SIGNAL QUALITY MONITORING AND CONTROL  
FOR A MEDICAL DEVICE SYSTEM

Confirmation No. 7858

Group Art Unit: 2126

Examiner: Not assigned

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. 1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Supplemental Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. § 1.56. Copies of the U.S. patent references cited below are not enclosed. The references are also listed on the enclosed and completed Form PTO/SB/08A.

**REFERENCES**

**U.S. Patent Documents**

	<b><u>Patent No.</u></b>	<b><u>Inventor</u></b>	<b><u>Date Granted</u></b>
DR	6,366,814	Boveja, et al.	04/02/2002
DR	6,587,727	Osorio, et al.	07/01/2003
DR	6,597,954	Pless, et al.	07/22/2003
DR	6,609,030	Rezai, et al.	08/19/2003

*Darin Roberts*

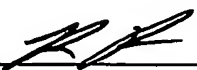
2/6/06

Other Prior Art

1. PCT International Search Report.

Respectfully submitted,  
BANNER & WITCOFF, LTD

Dated: June 10, 2004

By:   
Binal J. Patel  
Reg. No. 42,065





PTO/SB/08a (08-03)

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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
DR						

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Signature

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(Use as many sheets as necessary)					
Sheet	2	of	2		

[illegible]

Examiner Signature	<i>Dwain Robert</i>	Date Considered	<i>2/6/86</i>
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